

DLS/TMH/jlb:kam 01/10/02
4630-61733

- 36 -

Express Mail Label No. EV053213930US
Date of Deposit: January 10, 2002

***MDR1* VARIANTS AND METHODS FOR THEIR USE**

ABSTRACT

5

This invention provides the identification of a truncation polymorphism of the *mdr1* gene that is linked to ivermectin sensitivity in subjects, such as collies. Also provided are methods for detecting drug transport sensitivity in a subject, and animal models and *in vitro* cell systems using cells from animals having an *mdr1* truncation.

4630-61733-10044671